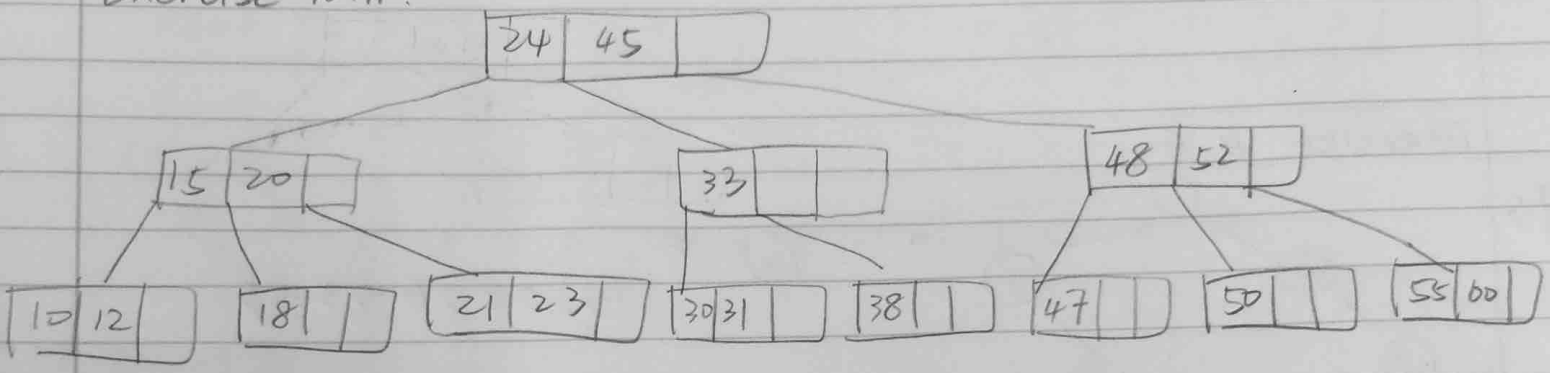
Exercise 10.11.



Exercise 11.3.

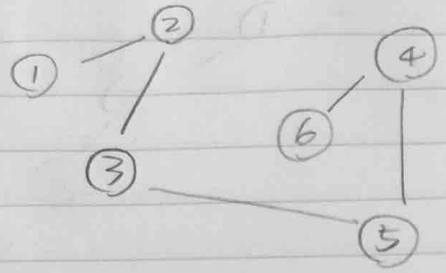
(a)

	1	2	3	4	5	6
1		10		20		2
2	10		3	5		
3		3			15	
4	20	5			11	10
5			15	11		3
6	2			10	3	

(b) 1 → 2 (10) → 4 (20) → 6 (2)
2 → 1 (10) → 3 (3) → 4 (5)
3 → 2 (3) → 5 (15)
4 → 1 (20) → 2 (5) → 5 (11) → 6 (10)
5 → 3 (15) → 4 (11) → 6 (3)
6 → 1 (2) → 4 (10) → 5 (3)

Exercise 11.4.

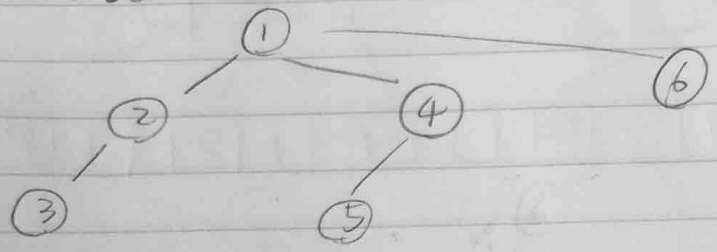
DFS:



1→2→3→5→4→6

Exercise 11.6

BFS:



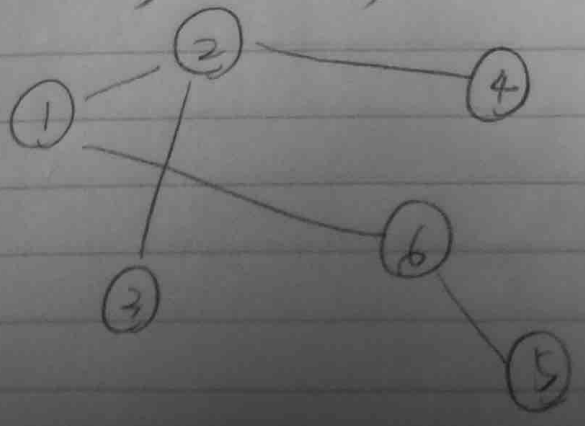
1→2→4→6→3→5

Exercise 11.10.

	1	2	3	4	5	6
Initial	∞	∞	∞	0	∞	∞
process 4	20	5	∞	0	11	10
process 2	15	5	8	0	11	10
process 3	15	5	8	0	11	10
process 6	12	5	8	0	11	10
process 5	12	5	8	0	11	10
process 1	12	5	8	0	11	10

Exercise 11.18.

(1,6), (5,6), (2,3), (2,4), (1,2)



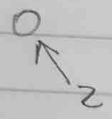
Exercise 6.7

Initialize:

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15.

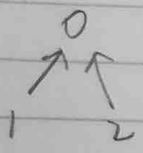
parent	\	\	\	\	\	\	\	\	\	\	\	\	\	\	\
node	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

- (0,2):



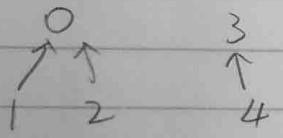
1 3 4 5 6 7 8 9 10 11 12 13 14 15

- (1,2):



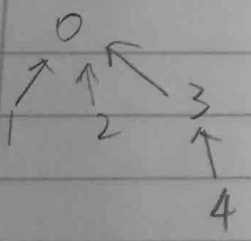
3 4 5 6 7 8 9 10 11 12 13 14 15.

- (3,4):



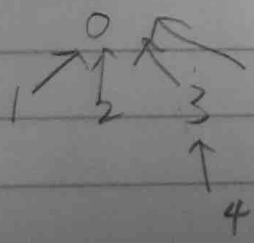
5 6 7 8 9 10 11 12 13 14 15.

- (3,1):



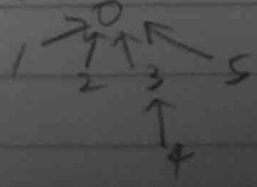
5 6 7 8 9 10 11 12 13 14 15

- (3,5):



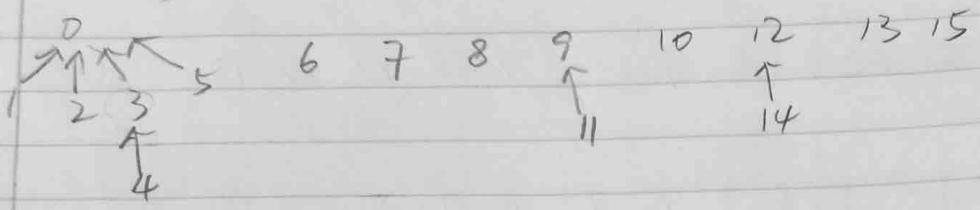
5. 6 7 8 9 10 11 12 13 14 15.

- (9,11):

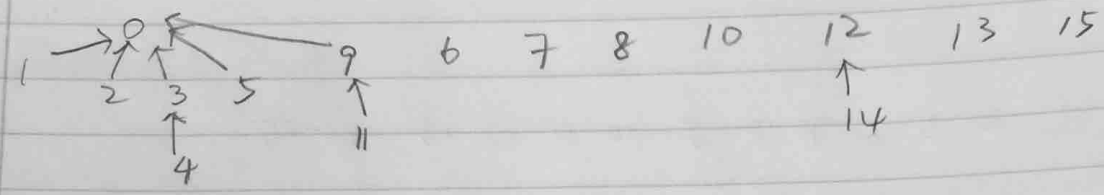


6 7 8 9 10 12 13 14 15.

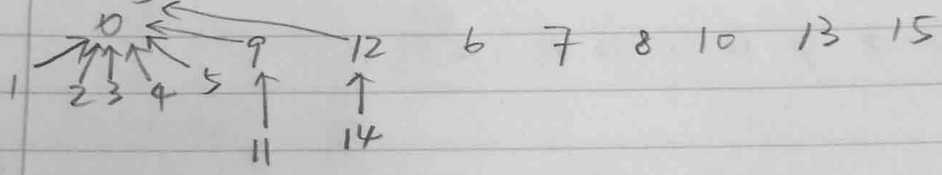
(12,14):



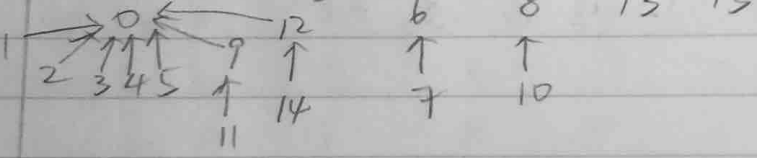
(3,9):



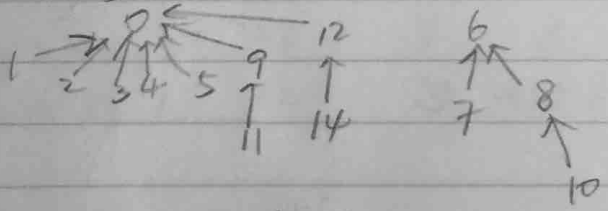
(4,14):



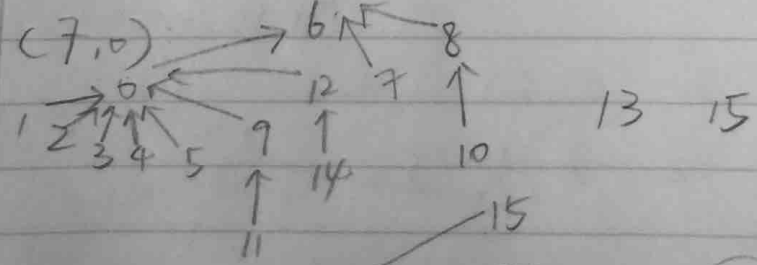
(6,7) & (8,10):



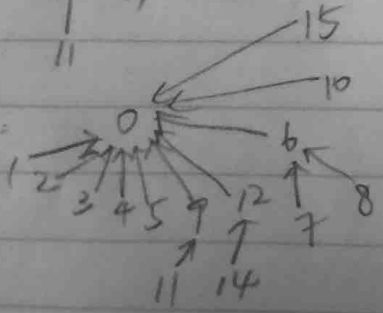
(8,7):



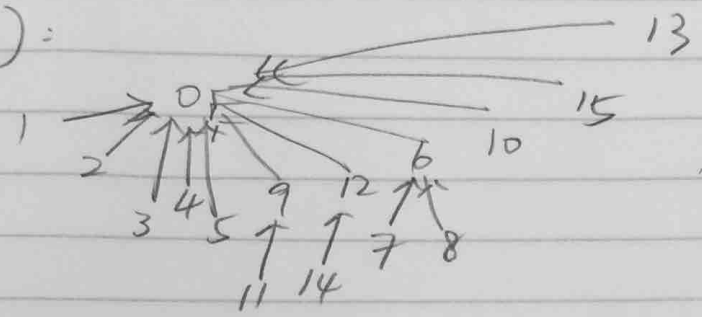
(7,10):



(10,15):



(10, 13):



result:

parent	\	0	0	0	0	0	0	6	6	0	0	9	0	0	12	0
node	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15